

93 RF 2737

ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

93-RF-2737

Richard J. Schassburger
Acting Director
Environmental Restoration Division
DOE, RFO

Attn: N. Castaneda

JUSTIFICATION FOR A REDUCTION IN THE DRILLING DEPTH OF A MONITORING WELL IN
IHSS 165 - MBA-019-93

The Operable Unit No. 6 (OU 6) Work Plan specifies that a monitoring well west of the PSZ fence in IHSS 165 be drilled 20 feet into bedrock. The well (76392) was only drilled into bedrock 12.1 feet. This error was not detected until after the drilling rig had completed work in IHSS 165. A moist sandstone was encountered from 8.5 feet to 13.6 feet and the well was screened to include that interval.

Upon evaluating all of the other wells and borings in IHSS 165, it appears that sufficient data for this IHSS exist and drilling an additional boring to log the missed 7.9 foot interval is not warranted. The attached table summarizes the borings and wells that have been drilled in or adjacent to IHSS 165. The well and boring locations are shown on the attached map.

The tabulated data show that monitoring well 213889, which is downgradient of IHSS 165, extends 23.9 feet into bedrock. It is screened in sandstone from 11.3 feet to 20.8 feet.

There are 23 wells and borings in the area of IHSS 165 that are drilled into bedrock. The range of distance into bedrock is from 2.0 feet to 23.9 feet. The data in the table show that 10 wells and borings encountered sandstone and 13 did not encounter sandstone.

The monitoring wells that intersect sandstone provide sufficient groundwater sampling locations to determine the potential for groundwater contamination. The logs from the 23 wells and borings provide ample information to map the sediment and bedrock. The soil samples collected for analytical analysis during drilling of the wells and borings adequately sample the soil for potential contaminants.

Drilling an additional well or boring to satisfy the 20 foot criteria in the Work Plan simply to evaluate the remaining 7.9 feet into bedrock would not contribute any significant information to the existing data.

REVIEWED FOR CLASSIFICATION/LCNI
BY G. T. Ostliek *STW*
DATE 6-4-93

A-0006-000115

Richard J. Schassburger
March 4, 1993
93-RF-2737
Page 2

In order to have agreement between the Work Plan and the field work which was performed, the Work Plan specification of drilling the monitoring well 20 feet into bedrock will be changed to 12 feet through a Document Change Notice. This letter and attachments will serve as the justification for that change. If there are questions or comments please contact P. J. Laurin of Remediation Project Management at extension 8702.



M. B. Arndt
Director
Remediation Project Management

PJL:dmf

Orig. and 1 cc - R. J. Schassburger

Attachments:
As Stated (2)